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## (54) LUBRICANT FOR HOT ROLLING OF STEEL MATERIAL

## (57)Abstract:

PURPOSE: To obtain a lubricant for hot rolling of steel materials, having excellent instantaneous adhesiveness, excellent hot lubricity, and better waste water treatability, by dispersing surface-treated  $\text{CaCO}_3$  with a water-soluble high-molecular compound as a dispersant into water.

CONSTITUTION:  $\text{CaCO}_3$  is treated with a surface treating agent, e.g., a fatty acid, a resin acid, a surfactant, etc., to obtain a surface-treated  $\text{CaCO}_3$ . Then, the surface-treated  $\text{CaCO}_3$  is dispersed into water by using a water-soluble high-molecular compound, e.g., polycarboxylic acid type high-molecular compounds, sodium alginate, etc., as dispersants.

EFFECT: The lubricant contains no oils, is stable at high temperature, and is easily separated from water. Also, the treatment of waste water with the lubricant is easy.

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